

FIG. 1

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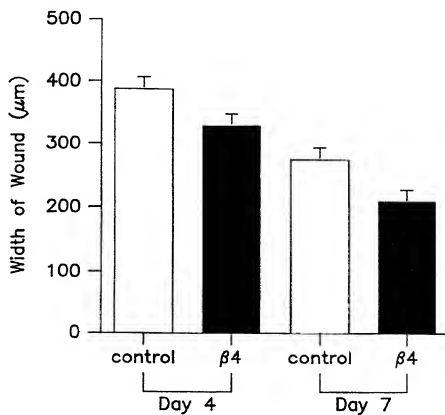


FIG. 2A

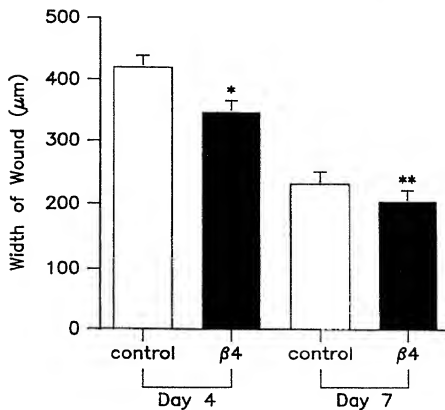


FIG. 2B

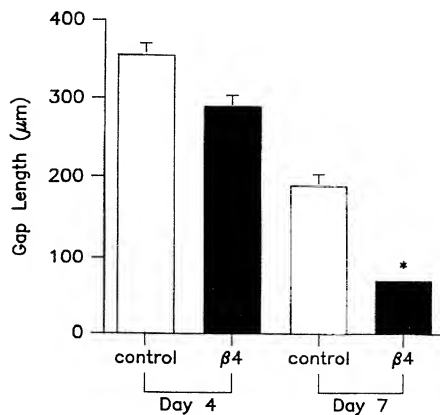


FIG. 3A

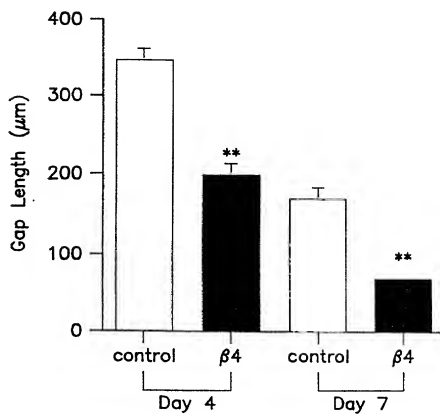


FIG. 3B

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FIG. 4c

FIG. 4b

FIG. 4a



FIG. 4f

FIG. 4e

FIG. 4d



FIG. 5a

FIG. 5b

FIG. 5c



FIG. 5d

FIG. 5e

FIG. 5f

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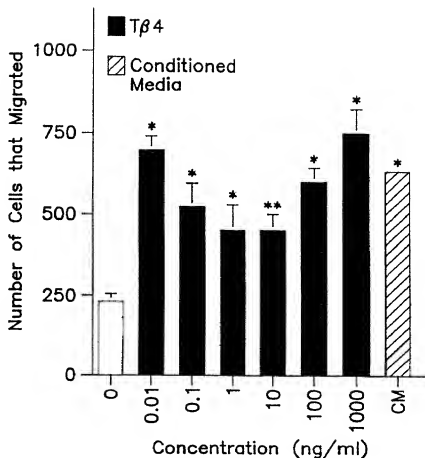


FIG. 6

Thymosin $\beta 4$ Stimulates
Migration of Human Corneal
Epithelial Cells

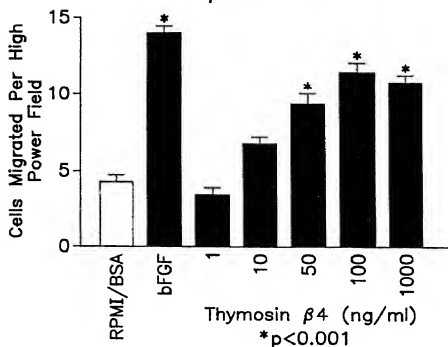
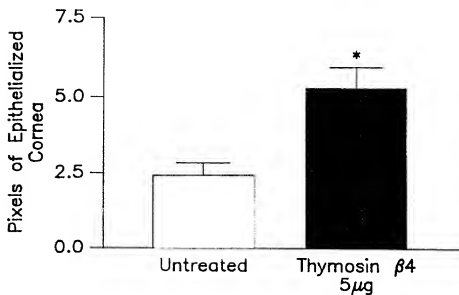


FIG. 7

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Thymosin $\beta 4$ Stimulates
Corneal Re-epithelialization in
the Rat Cornea at 24 Hours

* $p=0.003$

n=6

FIG. 8

Thymosin $\beta 4$ Stimulates
Re-epithelialization in the Rat
Cornea at 24 Hours:
Dose Response Experiment

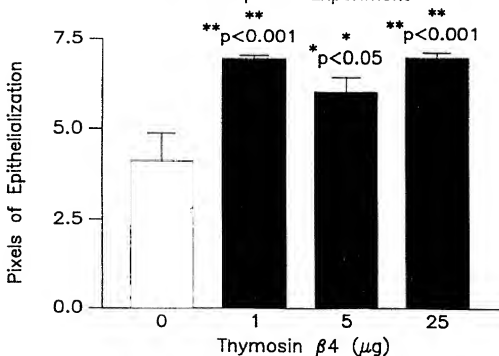


FIG. 9

Structural Formula of Thymosin Beta 4

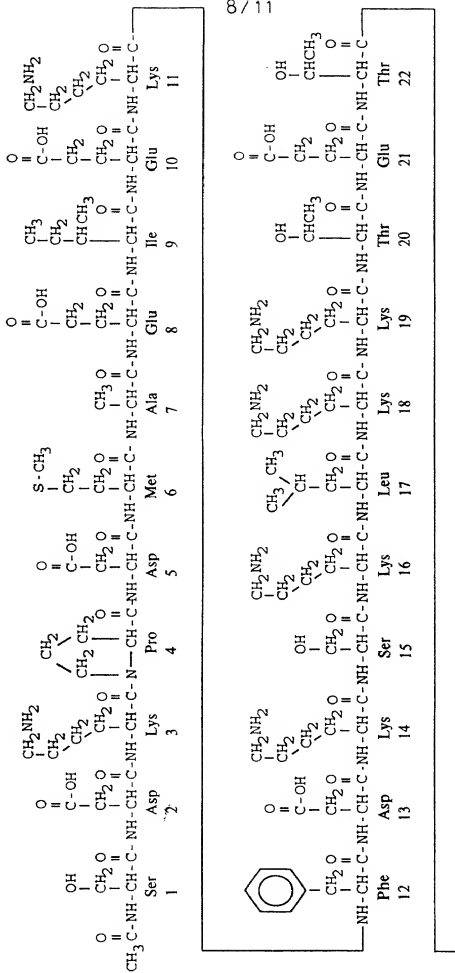


FIG. 10a

Structural Formula of Thymosin Beta 4

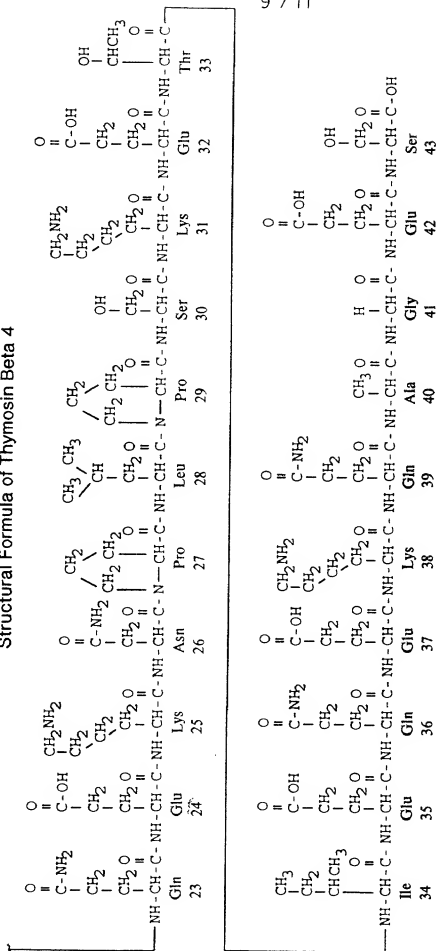


FIG. 10b

FIG. 11a

Amino Acid Sequence of Thymosin β_4 and other β -Thymosins

	5	10	15	20	25	30	35	40
HELIX.....			HELIX.....			
T β_4	ac-SDKP	DMAEI	EKFDK	SKLKK	TETQE	KNPLP	SKETI	EQEDQ AGES
T β_4^{Ala}	ac-AKDP	DMAEI	EKFDK	SKLKK	TETQE	KNPLP	SKETI	EQEKQ AGES
T β_4^{Xen}	ac-SDKP	DMAEI	EKFDK	AKLKK	TETQE	KNPLP	SKETI	EQEKQ STES
T β_9	ac-ADKP	DIGEI	NSFDK	AKLKK	TETQE	KNPLP	TKETI	EQEKQ AK
T β_9^{Met}	ac-ADKP	DMGEI	NSFDK	AKLKK	TETQE	KNPLP	TKETI	EQEKQ AK
T β_{10}	ac-ADKP	DMGEI	ASFDK	AKLKK	TETQE	KNPLP	TKETI	EQEKQ SEIS
T β_{11}	ac-SDKP	DLSEV	ASFDK	TKLKK	TETQE	KNPLP	TKETI	EQEKQ AS
T β_{12}	ac-SDKP	DIAEV	SNFDK	TKLKK	TETQE	KNPLP	TKETI	EQEKQ ATA
T $\beta_{12}^{\text{perch}}$	ac-SDKP	DISEV	TSFDK	TKLKK	TETQE	KNPLP	SKETI	EQEKA AATS
T β_{13}	ac-ADKP	DMGEI	ASFDK	AKLKK	TETQE	KNPLP	TKETI	EQEKQ AK
T β_{14}	ac-SDKP	DISEV	SSFDK	TKLKK	TETQE	KNPLP	TKETI	EQELT A
T β_{15}	ac-SDKP	DLSEV	EFYDK	SKLKK	TNTEE	KNPLP	SKETI	QOENE YNQRS
T β^{scallops}	ac-SDKP	FVSEV	ANFDK	SKLKK	TETQE	KNPLP	TKETI	QOENE A
T $\beta^{\text{sea urch}}$	ac-ADKP	DVSEV	STFDK	SKLKK	TETQE	KNPLP	TKETI	EQEKQ G

Phylogenetic Distribution of Thymosin β_4 -Like Peptides

Species	First peptide	Second peptide	Third peptide
Human	β_4	β_{10}	β_{15}
Rat, mouse, cat	β_4	β_{10}	β_{15} (rat tumor)
Calf	β_4	β_9	
Pig, sheep	β_4	β_9^{Met}	
Horse, chicken, gecko	β_4		
<i>Xenopus laevis</i>	β_4^{Xen}		
Rainbow trout	β_{11}	β_{12}	
Perch	$\beta_{12}^{\text{perch}}$		
Whale	β_{13}		
Sea urchin	β_{14}	$\beta^{\text{sea urchin}}$	
Scallop	β^{scallop}		

FIG. 11b